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18 April 1972

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MEMORANDUM FOR: [REDACTED]

SUBJECT : Notes on MCGWG Meeting of 14 April 1972

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1. [REDACTED] who chaired the meeting, noted that the basic reason for calling a special meeting at this time was the imminence of the launching of Mission 1116, now anticipated on 19 April 1972, and the need for agreeing on the MC&G requirements for both Missions 1116 and 1117.

2. With respect to item a. on the agenda for this meeting, regarding the evaluation criteria for the 12-inch mapping sub-system, only one or two minor points were mentioned. The criteria are attached to the minutes of the MCGWG meeting of 16 March 1972.

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3. The review of area requirements and priorities for Missions 1116 and 1117 (item b.) was placed on the agenda to give [REDACTED] a full understanding of how the requirements were developed with reference to the four priorities involved. Several vu-graphs were shown to describe the process; the last was a world-wide graphic giving the distribution of the requirements for Missions 1116 and 1117 in terms of priorities. In the vu-graph shown by [REDACTED] for these requirements, some old KH-4 coverage was included for recovery purposes. In terms of area the priority coverage requirements were as follows:

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NRO and DIA
review(s) completed.

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<u>Priority</u>	<u>Million Sq. NM</u>
1	.241
2	2.7
3	1.7
4	<u>8.8</u>

(Total) 13,478 of which
recovery of KH-4 photography is 6.2. [] stated
that the ability to meet these requirements would be affected by
weather thresholds. He said that for the priority 1 and 2 areas
he would expect to use 75 to 80 percent clear weather probability
and for the priority 3 and 4 areas 90 percent or greater probability
thresholds. He anticipated that during Missions 1116 and 1117 it
might be possible to obtain a net coverage of 3-4 million square
nautical miles for MC&G purposes. Still within the discussion of
item b., [] noted the priorities that had been set up
for MC&G requirements []

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In response to a question [] said that, as of that moment,
collection planned against intelligence targets for Mission 1116

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should leave approximately 40 percent for MC&G coverage, dictated of course by weather, and that as now estimated, possibly 80 percent of the film on Mission 1117 might be dedicated to MC&G.

4. With regard to MC&G guidance for NRO fiscal planning for FY 74-78 (item c.), [] referred to the draft attached to the agenda and said that in preparing this draft a slightly different approach was taken, namely the recognition that the NRO could not do all that was desired and that certain items such as questions relating to [] system could be pursued through other DoD programs. Actually the DDR&E does not think that [] will come to pass. The MC&G Technical Coordination Group was disturbed that the NRO had not approached the MC&G community with regard to the toroidal lens and feels that this Group must stay much closer to developments in its area of interest. [] noted the reference to [] and suggested that some number regarding accuracy requirements might be included to give an idea of what the MC&G community had in mind. I suggested that the MC&G technicians might not be prepared to do this as yet. He also thought that the request for improvements in orbits to provide mapping camera positions accurate to ten meters was expecting too much. []

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He pointed out that they would want revision material for the 1:250,000 map series about every eight years and for urban areas every five years. The coverage for Alaska is becoming increasingly important because of DoD interests. The schedule for completion of revision of map sheets had been set at sixty sheets per year but recently they have only been able to turn out approximately forty annually. At present they have twenty-seven sheets in work.

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10 April 1972

SUBJECT: Agenda for COMIREX MC&G Working Group Meeting 14 April 1972

TO: COMIREX MC&G Working Group Members

1. An MCGWG meeting is scheduled for 0900 hours, Room 2D921G (JRC Conference Room) on 14 April with agenda as follows:

a. Evaluation Criteria for 12" Mapping System.

As Enclosure 1 to Minutes M-69, dated 30 March 1972, evaluation criteria were detailed as resulting from discussions in the last MCGWG meeting. Enclosure 1 to M-69 will stand as the MCGWG approved evaluation criteria unless there are objections raised at the 14 April MCGWG meeting.

b. Review of Area Requirements and Priorities for Mission 1116 and 1117.

DIA will present geographic coverage and square nautical mile data that have been developed for these two missions, consistent with discussion of last meeting. As a follow on action it is desired to discuss the emphasis that should be placed on each of the MC&G relative priorities as broad guidance to the NRO.

c. MC&G Guidance for NRO Fiscal Planning for FY 74-78.

Enclosure 1 to this Agenda, subject: Recommended COMIREX Guidance to the NRO on FY 74-78 Developmental Efforts for MC&G, is a draft Memo to Chairman, COMIREX, forwarded for review. It is understood that the MCGWG can forward this data in time for inclusion in the broad guidance being developed by COMIREX, which is in the latter stages of formulation. (Similar MCGWG guidance for FY 73 was forwarded Chairman, COMIREX by MCGWG-D-21/5 dated 16 February 1972).

d. Status of Panoramic Coverage of US.

USGS is asked to describe the current situation as to panoramic coverage obtained to meet US coverage requirements. MCGWG should review the matter with the objective of establishing guidance to NRO for that portion of missions 1116 and 1117 devoted to MC&G coverage.

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e. Comparison of 12" Mapping Camera [redacted]
Project.

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Army has recommended that consideration be given to the use of a 12" mapping camera [redacted]

[redacted] as a matter of providing greater potential use from MC&G standpoint. It is desired to discuss the matter to arrive at appropriate courses of action by the MCGWG.

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2. Request that attendees enter by way of DIA Operations Center on first floor, E Ring, under River Entrance and then proceed up the back stairs to Room 2D921G.

1 Enclosure a/s

[Redacted]
Acting Chairman
COMIREX MC&G Working Group

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24 COMIREX Staff, [Redacted]
25 DIA COMIREX Member [Redacted]
26 USGS (Mr. Roy Fordham)
27 TOPOCOM (Mr. Perry Gilbert)
28-42 Ch/MCGWG

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A-MCGWG-70



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DEFENSE INTELLIGENCE AGENCY
WASHINGTON, D.C. 20301

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MEMORANDUM FOR THE CHAIRMAN, COMIREX

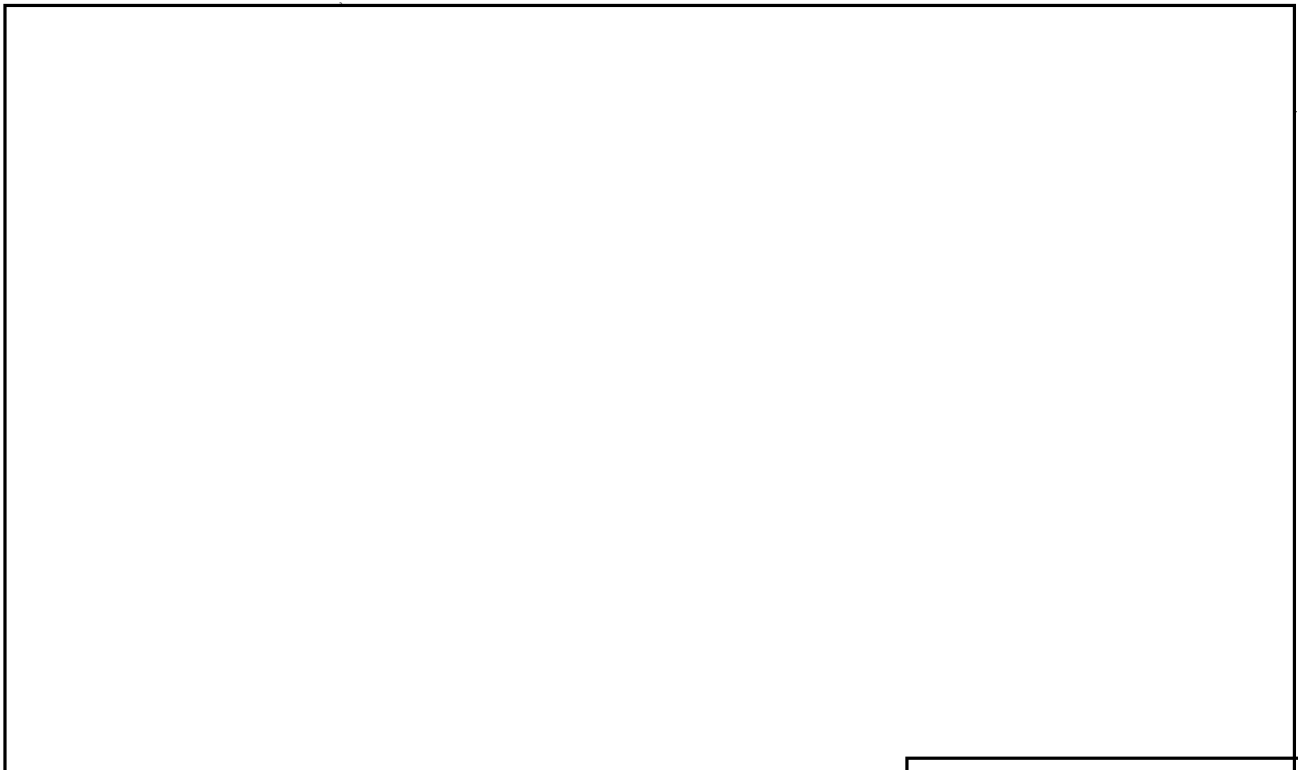
SUBJECT: Recommended COMIREX Guidance to the NRO on FY 74-78
Developmental Efforts for MC&G

References: a. Your Memo for Director, NRO Staff, subject: MC&G Interests
in Potential NRO Technical Development Programs, FY 1973-
1978 dated 27 September 1971.

b. MC&G Working Group memorandum, MCGWG-D-21/5, subject:
Recommended COMIREX Guidance to the NRO on FY 73
Developmental Efforts in Support of MC&G.

1. In accord with your efforts to provide guidance for NRO fiscal planning
for FY 73 and beyond the MCGWG provided guidance for FY 73 by reference b.
The following technical recommendations forwarded for your consideration,
cover the period FY 74-78 and constitute a revision and update of the
guidance previously submitted to NRO by reference a.

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and Declassification

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d. Toroidal Lenses - Based on information provided by the NRO on their early efforts on the design of a toroidal lens, the MC&G community feels that this lens configuration offers potential for MC&G exploitation. It is strongly recommended that this development be continued as a high priority effort and that the MC&G community be kept informed of progress. It is urged that at an appropriate point in the development cycle, the MC&G technical community should be consulted on the impact this type of optical system would have on MC&G production equipment and procedures.

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4. Some of the developmental actions recommended would result in very major benefits to MC&G. It is intended that the MCGWG develop in the near future broad management and technical improvement justification that can be used to justify appropriate development action by NRO.

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TOP SECRETPage 3 of 3 pages
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